

Review

1. Answer questions about the weighted voting system below.

[67 : 50, 30, 10, 5, 4, 1].

- (a) How many players are there? _____
 - (b) What is the quota? _____
 - (c) What is the total weight of the voting system? _____
2. Explain the terminology below. Then use the voting system from #1 to add illuminating examples.
 - (a) coalition
 - (b) winning coalition
 - (c) critical player
 - (d) dictator
 - (e) a player with veto power
 - (f) a dummy player

3. Answer questions about the weighted voting system below.

$$[30 : 25, 10, 5]$$

(a) List **ALL** coalitions.

(b) List all **WINNING** coalitions.

(c) In each **winning** coalition listed above, underline the critical players.

(d) Calculate the Banzhaf Power index.

- i. Find all winning coalitions
- ii. Find all critical players
- iii. Underline critical players
- iv. Count total # underlines
- v. For each player, compute: